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Enumeration degrees and enumerability of familes

Kalimullin I.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

We study the enumerability of families relative to the enumeration degrees. It is shown that if a family of finite sets is e-reducible to every non-zero e-degree, then the family is computably enumerable (c.e). On the another hand, we will find a non-c.e. family which is e-reducible to all non-zero e-degree. This allows to construct a model, whose (extended) degree spectrum coincides with the non-zero e-degrees.

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Keywords

C.e. Families, Degree spectra of models, E-degrees (enumeration degrees), Turing degrees